

**I claim:**

1. A method for remotely controlling a medical apparatus, said medical apparatus is used to take internal images of a human body and having control command sets that comply with the DICOM specifications and is capable of generating digital image data conforming to the DICOM specifications, said  
5 method comprising the steps of:

(a) building a server and connecting said server to said medical apparatus;

(b) building at least one remote device and connecting said remote  
10 device to said server;

(c) said remote device sending at least one DICOM control command to said medical apparatus via said server; and

(d) commanding said medical apparatus to take internal images of the human body for generating said digital image data.

15 2. The method for remotely controlling a medical apparatus as claimed in claim 1, wherein said medical apparatus is an angiography, an ultrasound unit, an endoscope, an intraoral camera or a CAT scanner.

3. The method for remotely controlling a medical apparatus as claimed in claim 1, wherein said server uses said control command that comply with  
20 the DICOM specifications to connect with said medical apparatus in said Step

(a).

4. The method for remotely controlling a medical apparatus as claimed in claim 1, further comprising, after said Step (b), the following step:

5       said remote device executing a remote control program to generate at least one DICOM control command.

5. The method for remotely controlling a medical apparatus as claimed in claim 1, further comprising, after said Step (c), the following step :

10       said server executing a communication program to perform control communication with said medical apparatus so as to control said medical apparatus for performing capture, storage or transmission of said digital image data.

6. The method for remotely controlling a medical apparatus as claimed in claim 1 further comprising, after said Step (d), the following step:

storing the said digital image data into said server.

15       7. The method for remotely controlling a medical apparatus as claimed in claim 1, further comprising, after said Step (e), the following step:

sending said digital image data to said remote device.

8. A method for remotely controlling a medical apparatus, said medical apparatus is used to take images of the inside of human body for generating  
20   medical image signals, said method comprising the steps of:

(a) building a digital conversion device and connecting the said digital conversion device to said medical apparatus in order to convert said medical image signals into digital image data that comply with the DICOM specifications;

5           (b) building at least a remote device and connecting said remote device to said digital conversion device;

(c) said remote device sending at least a DICOM control command to said digital conversion device; and

(d) controlling said digital conversion device to perform capture,  
10 storage or transmission of said digital image data.

9. The method for remotely controlling a medical apparatus as claimed in claim 8, wherein said medical apparatus is an angiography, an ultrasound unit, an endoscope, an intraoral camera or a CAT scanner.

10. The method for remotely controlling a medical apparatus as claimed  
15 in claim 8, wherein said digital conversion device in said Step (a) has an image capturing unit and a storage unit therein, and said image capturing unit is used to capture said medical image signals, convert said medical image signals into digital image data that comply with the DICOM specifications, and store said digital image data into said storage unit.

20           11. The method for remotely controlling a medical apparatus as claimed

in claim 8 further comprising, before said Step (b), the following steps:

building a server and connecting said server to said digital conversion device; and

connecting said remote device to said server and then to said digital  
5 conversion device via said server.

12. The method for remotely controlling a medical apparatus as claimed in claim 8 further comprising, after said Step (b), the following step:

said remote device executing a remote control program to generate at least one DICOM control command.

10 13. The method for remotely controlling a medical apparatus as claimed in claim 8 further comprising, after said Step (c), the following step:

said remote device executing a communication program to perform control communication with said digital conversion device so as to control said digital conversion device for performing capture, storage or transmission  
15 of said digital image data.

14. The method for remotely controlling a medical apparatus as claimed in claim 8 further comprising, after said Step (d), the following step:

storing said digital image data into said remote device; and

sending said digital image data to said remote device.

20 15. A device for remotely controlling a medical apparatus, said device

comprising:

at least a medical apparatus capable of taking internal images of a human body for generating medical image signals;

a server connected to said medical apparatus and used to control said  
5 medical apparatus for generating digital image data conforming to DICOM specifications;

an image storage database connected to said server and used to store said digital image data; and

at least a remote device connected to said server and capable of  
10 generating at least a DICOM control command to control said medical apparatus via said server for performing capture, storage or transmission of said digital image data.

16. The device for remotely controlling a medical apparatus as claimed in claim 15, wherein said medical apparatus is an angiography, an ultrasound  
15 unit, an endoscope, an intraoral camera or a CAT scanner.

17. The device for remotely controlling a medical apparatus as claimed in claim 15 further comprising a digital conversion device connected to said medical apparatus and said server and used to convert said medical image signals into digital image data conforming to the DICOM specifications and  
20 then to send said digital image data to said server.

18. The device for remotely controlling a medical apparatus as claimed in claim 17, wherein said digital conversion device further comprises:

an image capturing unit connected to said medical apparatus and used to capture said medical image signals and convert said medical image signals into digital image data conforming to the DICOM specifications;

a storage unit connected to said image capturing unit and used to store said digital image data; and

a network interface unit connected to said image capturing unit and capable of connecting to said server via a network to send said digital image data to said server.

19. The device for remotely controlling a medical apparatus as claimed in claim 15, wherein said server comprises:

a program storage unit storing at least a communication program, said communication program being used to perform control communication with said medical apparatus or a digital conversion device for controlling capture, storage or transmission of said digital image data;

a processing unit connected to said program storage unit and used to execute said communication program to perform control communication with said medical apparatus; and

a network interface unit connected to said processing unit and capable

of connecting to said medical apparatus and said remote device via a network for receiving or transmitting said digital image data.

20. The device for remotely controlling a medical apparatus as claimed in claim 15, wherein said remote device at least comprises:

5       a memory unit for storing at least a remote control program;

      a processing unit connected to said memory unit and used to execute said remote control program for generating at least a DICOM control command;

      a network interface unit connected to said processing unit and capable  
10 of connecting to said server via a network and transmitting said DICOM control command to said server or receiving said digital image data; and  
display unit connected to said processing unit and used to display said digital image data.